 <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> Form PTO-1449 (Modified) (Use several sheets if necessary)				<b>COMPLETE IF KNOWN</b>	
				Application Number	10/080,914
				Confirmation Number	7791
				Filing Date	February 22, 2002
				First Named Inventor	Randy Harris
				Group Art Unit	2462 1742
Examiner Name	Unknown				
Sheet	1	of	2	Attorney Docket No.	29195-8173US

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U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.	U.S. Patent or Application		Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		NUMBER	Kind Code (if known)			
WJ		US2002/0084195		Chen et al.	08/16/01	
		3,878,066		Dettke et al.	04/1975	
		3,904,493		Losi et al.	09/1975	
		4,055,751		Bussman et al.	10/25/77	
		4,090,926		Matson	05/23/78	
		4,132,605		Tench et al.	01/02/79	
		4,146,437		O-Keefe	03/27/79	
		4,155,815		Francis et al.	05/22/79	
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		4,917,774		Fisher	04/17/90	
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		5,192,403		Chang et al.	03/09/93	
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		5,234,573		Takami	08/10/93	
		5,364,510		Carpio	11/15/94	
		5,389,215		Horiuchi et al.	02/14/95	
		5,391,271		Ludwig	02/21/95	
		5,534,128		Aso et al.	07/09/96	
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WJ		6,110,011		Somekh et al.	08/29/00	

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<b>EXAMINER</b> William Leader	<b>DATE CONSIDERED</b> 3/4/2005
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**INFORMATION DISCLOSURE  
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Form PTO-1449 (Modified)  
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**COMPLETE IF KNOWN**

Application Number	10/080,914
Confirmation Number	7791
Filing Date	February 22, 2002
First Named Inventor	Randy Harris
Group Art Unit	<del>2152</del> 1742
Examiner Name	Unknown
Attorney Docket No.	29195-8173US

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**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No.	U.S. Patent or Application		Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		NUMBER	Kind Code (if known)			
WL		6,136,163		Cheung et al.	10/24/00	
WL		6,139,712		Patton et al.	10/31/00	
WL		6,318,951		Schmidt et al.	11/20/01	

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Examiner Initials*	Cite No.	Foreign Patent or Application			Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	NUMBER	Kind Code (if known)			
WL		WO	00/02675		Semitool, Inc.	01/20/00	
WL		WO	99/57549		Semitool, Inc.	11/11/99	

**OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published.	T
WL		International Search Report for International Application No. PCT/US03/05063; Applicant: Semitool, Inc.; Date Mailed: 08 Aug 2003; 5 pgs.	
WL		LOWENHEIM, F.A., "Electroplating," (1978) McGraw-Hill book Co., New York, pp 120-121	
WL		WILLARD, Hobart H. et al., "Instrumental Methods of Analysis," (1974), pp 647-656, D. Van Nostrand Company	

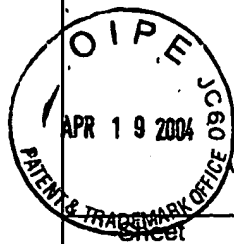
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Application Number	10/080,914
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Filing Date	February 22, 2002
First Named Inventor	Randy Harris
Group Art Unit	1742
Examiner Name	Donald R. Valentine
Attorney Docket No.	29195-8173US

1 of 5

**U.S. PATENT DOCUMENTS**

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		NUMBER	Kind Code (if known)			
WL		09/679,928		Woodruff et al.	10/05/00	
		60/129,055		McHugh	04/13/99	
		60/143,769		McHugh	07/12/99	
		60/182,160		McHugh et al.	02/14/00	
		60/206,663		Wilson et al.	05/24/00	
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		1,881,713		Laukel	10/11/32	
		2,256,274		Boedecker et al.	09/16/41	
		4,046,105		Gomez	09/06/77	
		4,304,641		Grandia et al.	12/08/81	
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		4,670,126		Messer et al.	06/02/87	
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		4,761,214		Hinman	08/02/88	
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		4,828,654		Reed	05/09/89	
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WL		4,988,533		Freeman et al.	01/29/91	

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Application Number	10/080,914
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Filing Date	February 22, 2002
First Named Inventor	Randy Harris
Group Art Unit	1742
Examiner Name	Donald R. Valentine
Attorney Docket No.	29195-8173US

Sheet	2	of	5
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## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	U.S. Patent or Application		Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		NUMBER	Kind Code (if known)			
W2		5,000,827		Schuster et al.	03/19/91	
		5,061,144		Akimoto et al.	10/29/91	
		5,064,337		Asakawa et al.	11/12/91	
		5,135,636		Yee et al.	08/04/92	
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Form PTO-1449 (Modified)  
(Use several sheets if necessary)

## **COMPLETE IF KNOWN**

Application Number 10/080,914  
Confirmation Number 7791  
Filing Date February 22, 2002  
First Named Inventor Randy Harris  
Group Art Unit 1742  
Examiner Name Donald R. Valentine  
Attorney Docket No. 29195-8173US

Sheet 3 of 5

## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No.	U.S. Patent or Application		Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		NUMBER	Kind Code (if known)			
WL		5,711,646		Ueda et al.	01/27/98	
		5,723,028		Poris	03/03/98	
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		6,027,631		Broadbent	02/22/00	
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		6,074,544		Reid et al.	06/13/00	
		6,090,260		Inoue et al.	07/18/00	
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		6,162,488		Gevelber et al.	12/19/00	
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Application Number 10/080,914  
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First Named Inventor Randy Harris  
Group Art Unit 1742  
Examiner Name Donald R. Valentine  
Attorney Docket No. 29195-8173US

Sheet 4 of 5

## **U.S. PATENT DOCUMENTS**

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		NUMBER	Kind Code (if known)			
WL		6,179,983		Reid et al.	01/30/01	
		6,193,859		Contolini et al.	02/27/01	
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		6,228,232		Woodruff et al.	05/08/01	
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WL		6,391,166		Wang	05/21/02	

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Examiner Initials*	Cite No.	Foreign Patent or Application			Name of Patentee or Applicant of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	NUMBER	Kind Code (if known)				
WL		WO	00/02808		Semitool, Inc.	01/20/00		
		WO	00/61498		Semitool, Inc.	10/19/00		
		WO	00/61837		Semitool, Inc.	10/19/00		
		WO	01/90434		Semitool, Inc.	11/29/01		
		WO	02/097165		Semitool, Inc.	12/05/02		
WL		WO	02/099165		Semitool, Inc.	12/12/02		

## **OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published.	T
WL		LEE, TIEN-YU TOM et al., "Application of a CFD Tool in Designing a Fountain Plating Cell for Uniform Bump Plating of Semiconductor Wafers," IEEE Transactions On Components, Packaging and Manufacturing Technology - Part B, February 1996, pp 131-137, Vol 19, No. 1, IEEE	
WL		MAGNUM, "The perfect partnership of process excellence and production control in a fully-automated platform," (1996), pp 1-12, Semitool, Inc.	

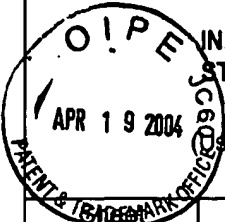
EXAMINER

William Leader

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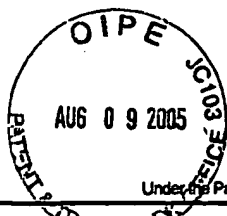
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 <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> Form PTO-1449 (Modified) Use several sheets if necessary	<b>COMPLETE IF KNOWN</b>			
	Application Number		10/080,914	
	Confirmation Number		7791	
	Filing Date		February 22, 2002	
	First Named Inventor		Randy Harris	
	Group Art Unit		1742	
	Examiner Name		Donald R. Valentine	
Attorney Docket No.		29195-8173US		
5	of	5		

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W2		RITTER, G., et al., "Two-And Three-Dimensional Numerical Modeling of Copper Electroplating for Advanced ULSI Metallization," June 1999, 13 pgs, E-MRS Conference Symposium M. <i>Basic Models to Enhance Reliability</i> , Strasbourg, France	

EXAMINER <i>William Leader</i>	DATE CONSIDERED <i>3/4/2005</i>
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PTO/SB/08a/b (08-03)  
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Substitute for form 1449A/B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>			<b>Complete if Known</b>		
			Application Number	10/080,914-Conf. #7791	
			Filing Date	February 22, 2002	
			First Named Inventor	Randy A. Harris	
			Art Unit	1742	
			Examiner Name	W. T. Leader	
Sheet	1	of	1	Attorney Docket Number	291958173US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
WL		US-5,168,886	12-08-1992	Thompson et al.	
WL		US-6,264,752	07-24-2001	Curtis et al.	
WL		US-6,716,330-A1	04-08-2004	Hongo et al.	

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>

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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	William Leader	Date Considered	9/7/2005
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